STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 125949

TO: Shailendra Kumar **Location: 5d61 / 5c18** **Wednesday, June 30, 2004** **Art Unit: 1621** **Phone: 272-0640** **Serial Number: 10 / 757231**	**From: Jan Delaval** **Location: Biotech-Chem Library** **Rem 1A51** **Phone: 272-2504** **jan.delaval@uspto.gov**

Search Notes

Plan please

125949

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: S. Kumar Examiner #: 69594 Date: 6/29/04

Art Unit: 1621 Phone Number ~~30~~ 272-0640 Serial Number: 10/757231

Mail Box and Bldg/Room Location: REM 5D61 Results Format Preferred (circle): PAPER DISK E-MAIL

5C18

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

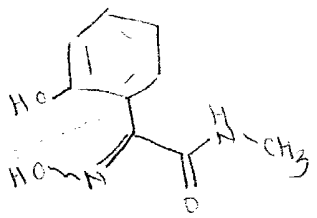
Title of Invention: Methods for Inhibiting 2-(2-hydroxyphenyl)-2(alkoxyimino)-N...

Inventors (please provide full names): Walter Hubsch et al

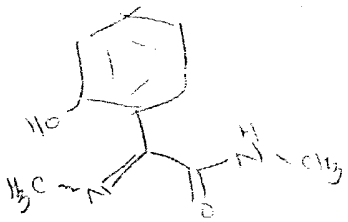
Earliest Priority Filing Date: 11/26/1999

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

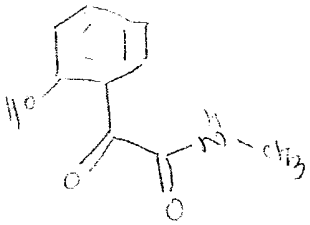
I



II



III



Please fee ~~complete~~ claims 2, 3, 4, 5, 6, 7

****

STAFF USE ONLY

Searcher: _____

Searcher Phone #: 22504

Searcher Location: _____

Date Searcher Picked Up: 6/30

Date Completed: 6/30

Searcher Prep & Review Time: _____

Clerical Prep Time: 15

Online Time: +30

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) ✓

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN ✓

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

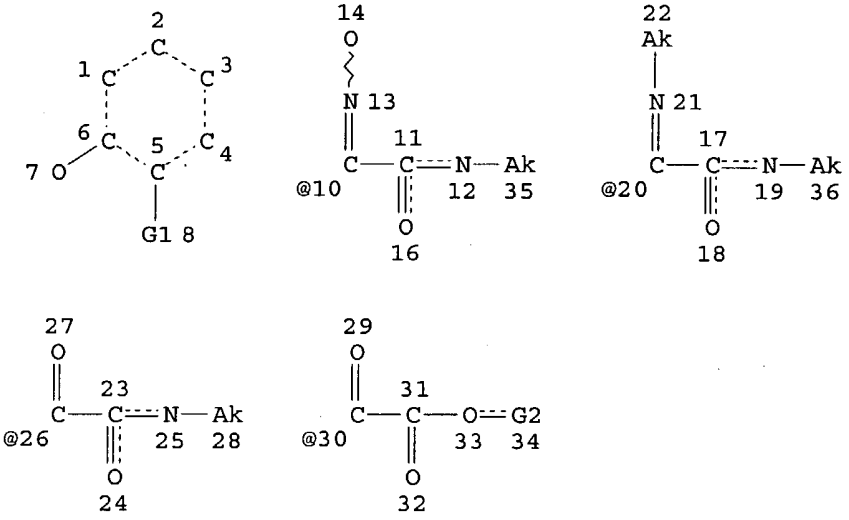
Sequence Systems _____

WWW/Internet _____

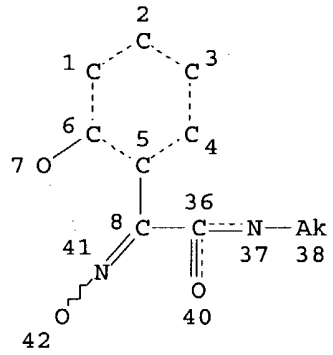
Other (specify) _____

PTO-1590 (8-01)

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 06:22:04 ON 30 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   28 JUN 2004  HIGHEST RN 700803-86-7
DICTIONARY FILE UPDATES:  28 JUN 2004  HIGHEST RN 700803-86-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sta que l36
L30             STR
```




```
VAR G1=10/20/26/30
VAR G2=AK/CY
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  34

STEREO ATTRIBUTES: NONE
L32          824 SEA FILE=REGISTRY SSS FUL L30
L33              STR
```



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 5
NUMBER OF NODES IS 14

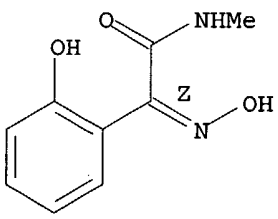
STEREO ATTRIBUTES: NONE
L36 3 SEA FILE=REGISTRY SUB=L32 CSS FUL L33

100.0% PROCESSED 622 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

=> d ide can tot l36

L36 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 497869-09-7 REGISTRY
CN Benzeneacetamide, 2-hydroxy-α-(hydroxyimino)-N-methyl-, (αZ)-
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C9 H10 N2 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

Double bond geometry as shown.



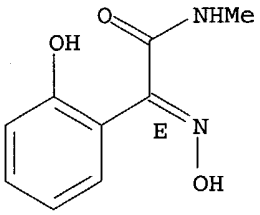
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:169968

L36 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 496770-93-5 REGISTRY
CN Benzeneacetamide, 2-hydroxy-α-(hydroxyimino)-N-methyl-, (αE)-
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C9 H10 N2 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.

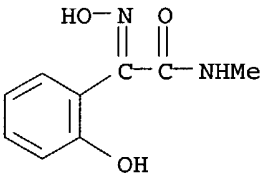


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:153328

L36 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 342632-43-3 REGISTRY
CN Benzeneacetamide, 2-hydroxy-α-(hydroxyimino)-N-methyl- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C9 H10 N2 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



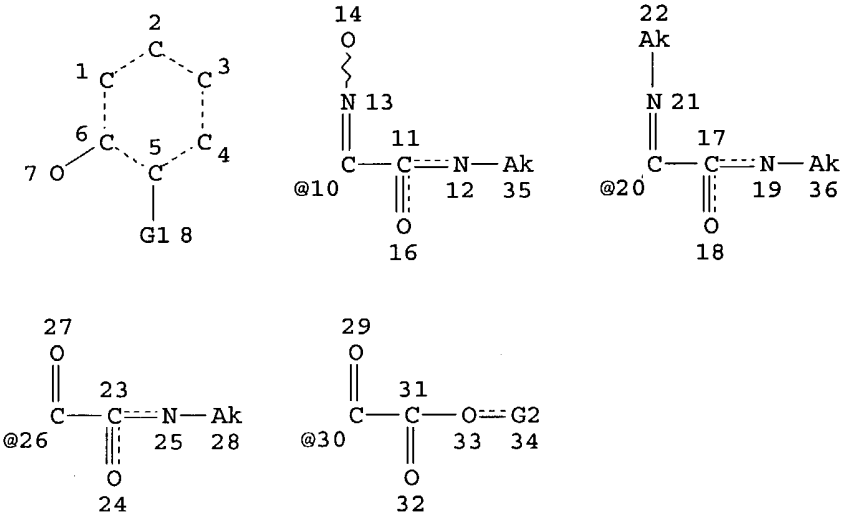
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:19440

=> d sta que l40

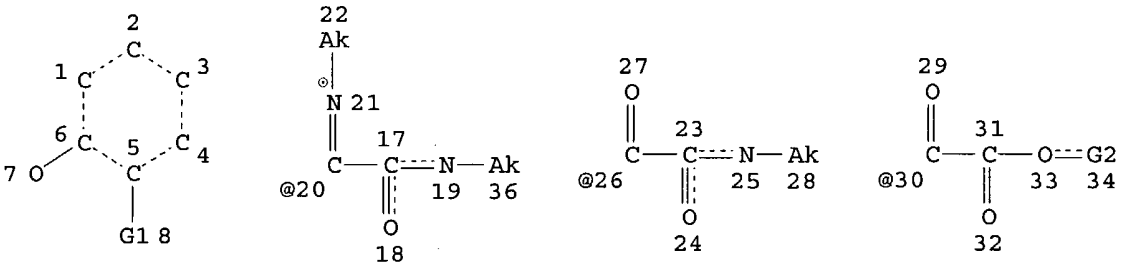
L30 STR



VAR G1=10/20/26/30
VAR G2=AK/CY
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE
L32 824 SEA FILE=REGISTRY SSS FUL L30
L37 STR



Cy @38

VAR G1=20/26/30
VAR G2=AK/38
NODE ATTRIBUTES:
CONNECT IS M1 RC AT 38
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

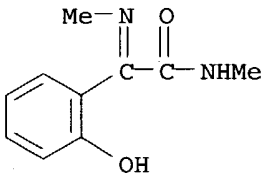
GRAPH ATTRIBUTES:
RSPEC 1
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE
L39 5 SEA FILE=REGISTRY SUB=L32 CSS FUL L37

L40 4 SEA FILE=REGISTRY ABB=ON PLU=ON L39 NOT CCS/CI

=> d ide can tot l40

L40 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
RN 342632-46-6 REGISTRY
CN Benzeneacetamide, 2-hydroxy-N-methyl-α-(methylimino)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H12 N2 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



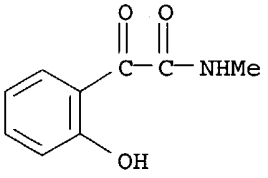
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:169968

REFERENCE 2: 135:19440

L40 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
RN 342632-41-1 REGISTRY
CN Benzeneacetamide, 2-hydroxy-N-methyl-α-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H9 N O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



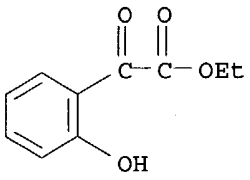
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:19440

L40 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 40785-55-5 REGISTRY
CN Benzeneacetic acid, 2-hydroxy-α-oxo-, ethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ethyl (2-hydroxyphenyl)glyoxylate
CN Ethyl 2-hydroxybenzoylformate
FS 3D CONCORD
MF C10 H10 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:326021

REFERENCE 2: 134:326020

REFERENCE 3: 127:81288

REFERENCE 4: 124:8508

REFERENCE 5: 110:111727

REFERENCE 6: 107:197805

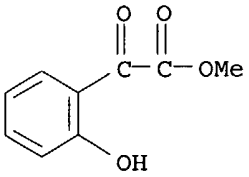
REFERENCE 7: 92:41857

REFERENCE 8: 87:184461

REFERENCE 9: 78:124421

L40 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
RN 34073-46-6 REGISTRY
CN Benzeneacetic acid, 2-hydroxy-α-oxo-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glyoxylic acid, (o-hydroxyphenyl)-, methyl ester (8CI)
OTHER NAMES:
CN 2-Hydroxy-α-oxobenzeneacetic acid methyl ester
CN Methyl (2-hydroxyphenyl)glycoxylate
FS 3D CONCORD
MF C9 H8 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:16442

REFERENCE 2: 138:368896

REFERENCE 3: 137:392532

REFERENCE 4: 136:5997

REFERENCE 5: 135:19440

REFERENCE 6: 134:17495

REFERENCE 7: 134:4766

REFERENCE 8: 123:142968

REFERENCE 9: 115:71330

REFERENCE 10: 110:111727

=> d his

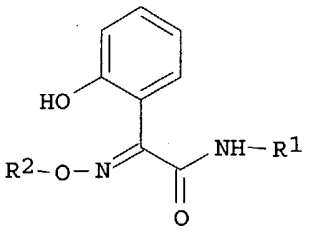
(FILE 'CASREACT' ENTERED AT 06:00:31 ON 30 JUN 2004)
DEL HIS

FILE 'HCAPLUS' ENTERED AT 06:00:57 ON 30 JUN 2004
L1 1 S US6700017/PN OR (WO2000-EP11225 OR DE99-19956920)/AP,PRN
E HUEBSCH W/AU
L2 94 S E3-E6
E HUBSCH W/AU
L3 4 S E4
E GALLENKAMP B/AU
L4 73 S E3,E4
E GAYER H/AU
L5 97 S E3-6
E MULDER L/AU
L6 28 S E3-E9,E17-E19
E MUELDER/AU
E MUH T/AU
L7 1 S E3
E MUEH T/AU
L8 10 S E4
E LANTZSCH R/AU
L9 184 S E3,E4

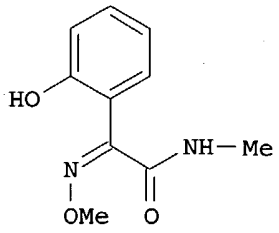
```
                E WEINTRITT H/AU
L10          20 S E4
                E WEINTRIT H/AU
                E BAYER/PA,CS
L11       47089 S BAYER?/PA,CS
                SEL RN L1

     FILE 'REGISTRY' ENTERED AT 06:03:54 ON 30 JUN 2004
L12           6 S E1-E6
L13           1 S L12 AND C8H4O3
L14           1 S L12 AND C9H10N2O3
L15           1 S L12 AND C9H9NO3
L16           1 S L12 AND C10H12N2O2
L17           1 S L12 AND C9H8O4
L18           1 S L12 NOT L13-L17

     FILE 'HCAOLD' ENTERED AT 06:06:40 ON 30 JUN 2004
L19           0 S L14 OR L15 OR L16 OR L17

     FILE 'HCAPLUS' ENTERED AT 06:07:27 ON 30 JUN 2004
L20           1 S L14
L21           1 S L15
L22           2 S L16
L23           2 S L20-L22
L24          13 S L17
L25           4 S L18
L26          51 S L13
L27           1 S L23 AND L24-L26
L28           1 S L23 NOT L27
L29           2 S L1-L11 AND L20-L23,L27,L28

     FILE 'REGISTRY' ENTERED AT 06:08:59 ON 30 JUN 2004
L30             STR
L31          50 S L30
L32         824 S L30 FUL
                SAV TEMP L32 KUMAR757/A
L33             STR L30
L34          43 S L33 SAM SUB=L32
L35           1 S L33 CSS SAM SUB=L32
L36           3 S L33 CSS FUL SUB=L32
                SAV L36 KUMAR757A/A TEMP
L37             STR L30
L38           0 S L37 CSS SAM SUB=L32
L39           5 S L37 CSS FUL SUB=L32
                SAV TEMP L39 KUMAR757B/A
L40           4 S L39 NOT CCS/CI

     FILE 'HCAPLUS' ENTERED AT 06:18:07 ON 30 JUN 2004
L41           3 S L36
L42          23 S L39
L43           2 S L41 AND L42
L44           3 S L29,L41,L43
L45           3 S L44 AND L1-L11
L46           3 S L45 AND (METHYLAMINE OR METHYL AMINE OR MENH2)

     FILE 'REGISTRY' ENTERED AT 06:19:32 ON 30 JUN 2004
L47           1 S 74-89-5

     FILE 'HCAPLUS' ENTERED AT 06:19:36 ON 30 JUN 2004
L48           2 S L47 AND L45
L49           3 S L46,L48
L50           0 S L49 AND (HYDROXYLAMINE OR HYDROXY# AMINE)
L51           2 S L49 AND L42
```

```
L52             3 S L49,L51
                  SEL RN

     FILE 'REGISTRY' ENTERED AT 06:21:15 ON 30 JUN 2004
L53            18 S E7-E24

     FILE 'HCAPLUS' ENTERED AT 06:21:49 ON 30 JUN 2004
L54             3 S L53 AND L52

     FILE 'REGISTRY' ENTERED AT 06:22:04 ON 30 JUN 2004

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 06:22:43 ON 30 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 30 Jun 2004  VOL 141 ISS 1
FILE LAST UPDATED: 29 Jun 2004  (20040629/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d l54 all hitstr tot

L54  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:133224  HCAPLUS
DN   138:169968
ED   Entered STN:  21 Feb 2003
TI   Preparation of 2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides via
     the ring-opening amidation of 2,2-dichloro-3(2H)-benzofuranone
IN   Weintritt, Holger; Lantzsch, Reinhard; Mueh,
     Thorsten
PA   Bayer CropScience AG, Germany
SO   PCT Int. Appl., 28 pp.
     CODEN: PIXXD2
DT   Patent
LA   German
IC   ICM  C07C249-08
     ICS  C07C251-48; C07C249-04
CC   25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
     Section cross-reference(s): 21, 34
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2003014066      A2   20030220       WO 2002-EP8244   20020724
     WO 2003014066      A3   20031127
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
```

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
DE 10138575 A1 20030220 DE 2001-10138575 20010806
EP 1417168 A2 20040512 EP 2002-758383 20020724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRAI DE 2001-10138575 A 20010806
WO 2002-EP8244 W 20020724
OS CASREACT 138:169968; MARPAT 138:169968
GI



I



II

AB A process for the preparation of title compds. I [R1, R2 = alkyl] via the ring-opening amidation of 2,2-dichloro-3(2H)-benzofuranone with amines and related compds. is disclosed. For example, to a solution of 2,2-dichloro-3(2H)-benzofuranone (5.39 gm) in tert-butylmethyl ether (60 mL) was added aqueous 40% **methylamine** (10.09 gm) over a 10 min period. The reaction was stirred for addnl. 3 h, then water (8.8 mL), methoxyamine hydrochloride (2.61 gm) and sodium acetate (2.56 gm) was added. The reaction was stirred for an addnl. 9 h, the reaction worked-up by vacuum distillation and recrystn. from ice water to afford (Z)-methylacetamide II in 91% yield. Approx., 3-specific examples of compds. I and one intermediate were prepared

ST prepn ring opening regioselective methylacetamide dichlorobenzofuranone

IT Amines, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkoxylated; preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

IT Amidation
(preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

IT Amines, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

IT Ring opening
(regioselective; preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

IT **36037-84-0P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

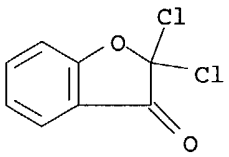
IT **74-89-5**, **Methylamine**, reactions **593-56-6**, Methoxyamine hydrochloride **7782-50-5**, Chlorine, reactions **10039-54-0**, Hydroxylammonium sulfate **93680-80-9**, 3-Acetoxybenzofuran

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

IT **308286-26-2P 342632-46-6P 497869-09-7P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(product; preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

IT **36037-84-0P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

RN 36037-84-0 HCAPLUS
CN 3(2H)-Benzofuranone, 2,2-dichloro- (9CI) (CA INDEX NAME)



IT **74-89-5**, **Methylamine**, reactions **593-56-6**, Methoxyamine hydrochloride **7782-50-5**, Chlorine, reactions **10039-54-0**, Hydroxylammonium sulfate **93680-80-9**, 3-Acetoxybenzofuran
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)

RN 74-89-5 HCAPLUS
CN Methanamine (9CI) (CA INDEX NAME)

H_3C-NH_2

RN 593-56-6 HCAPLUS
CN Hydroxylamine, O-methyl-, hydrochloride (8CI, 9CI) (CA INDEX NAME)

$H_3C-O-NH_2$

● HCl

RN 7782-50-5 HCAPLUS
CN Chlorine (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

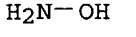
Cl—Cl

RN 10039-54-0 HCAPLUS
CN Hydroxylamine, sulfate (2:1) (salt) (8CI, 9CI) (CA INDEX NAME)

CM 1

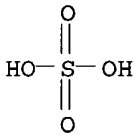
CRN 7803-49-8

CMF H3 N O

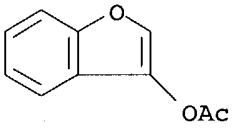


CM 2

CRN 7664-93-9
CMF H2 O4 S

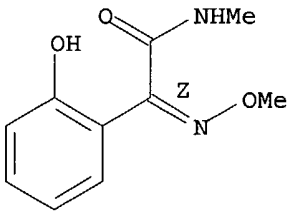


RN 93680-80-9 HCAPLUS
CN 3-Benzofuranol, acetate (9CI) (CA INDEX NAME)

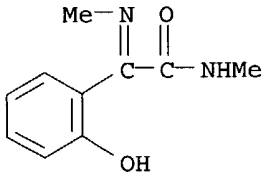


IT **308286-26-2P 342632-46-6P 497869-09-7P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(product; preparation of hydroxyphenylalkoxyiminomethylacetamides via the ring-opening amidation of dichlorobenzofuranone)
RN 308286-26-2 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-α-(methoxyimino)-N-methyl-, (αZ)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

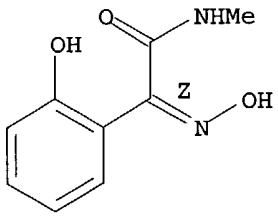


RN 342632-46-6 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-N-methyl-α-(methylimino)- (9CI) (CA INDEX NAME)



RN 497869-09-7 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-α-(hydroxyimino)-N-methyl-, (αZ)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L54 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:114205 HCAPLUS
DN 138:153328
ED Entered STN: 14 Feb 2003
TI Stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**
IN **Weintritt, Holger**; **Lantzsch, Reinhard**; **Mueh, Thorsten**
PA **Bayer CropScience AG, Germany**
SO Ger. Offen., 6 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM C07C249-12
ICS C07C251-38
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 45
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10137728	A1	20030213	DE 2001-10137728	20010801
WO 2003014065	A1	20030220	WO 2002-EP8040	20020719

PI
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1414789	A1	20040506	EP 2002-751149	20020719 .

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI DE 2001-10137728 A 20010801

WO 2002-EP8040 W 20020719
OS CASREACT 138:153328; MARPAT 138:153328
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention concerns a new procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides [I; R = (un)substituted C1-6 alkyl with 1-3 F atoms; e.g., (2E)-2-(hydroxyphenyl)-2-(methoxyimino)-N-methylacetamide] are prepared in high yield by the stereoselective ring-opening amidation of 2-benzofuranone-3-oxime (III) with **methylamine** to give (2E)-2-(hydroxyphenyl)-2-(hydroxyimino)-N-methylacetamide (II) which is then etherified with alkyl derivs. RX (X = Cl, Br, I, etc.; di-Me sulfate).

ST hydroxyphenylmethoxyiminomethylacetamide stereoselective prepn; hydroxyphenylalkoxyiminomethylacetamide stereoselective prepn

IT Etherification
(of (2E)-2-(hydroxyphenyl)-2-(hydroxyimino)-N-methylacetamide with alkyl derivs.)

IT Stereochemistry
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

IT Amides, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

IT Ring opening
(stereoselective; of 3-oximino-2-benzofuranone with **methylamine** into (2E)-2-(hydroxyphenyl)-2-(hydroxyimino)-N-methylacetamide)

IT **77-78-1**, Dimethyl sulfate
RL: RCT (Reactant); RGT (Reagent); RACT (Reactant or reagent)
(in a stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

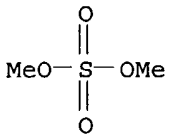
IT **74-89-5**, **Methylamine**, reactions **17892-65-8**, 3-(Hydroxyimino)-2-benzofuranone
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

IT **496770-93-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

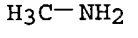
IT **156895-31-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

IT **77-78-1**, Dimethyl sulfate
RL: RCT (Reactant); RGT (Reagent); RACT (Reactant or reagent)
(in a stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)

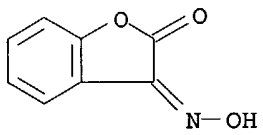
RN 77-78-1 HCAPLUS
CN Sulfuric acid, dimethyl ester (8CI, 9CI) (CA INDEX NAME)



IT **74-89-5, Methylamine**, reactions **17892-65-8**,
3-(Hydroxyimino)-2-benzofuranone
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)
RN 74-89-5 HCAPLUS
CN Methanamine (9CI) (CA INDEX NAME)

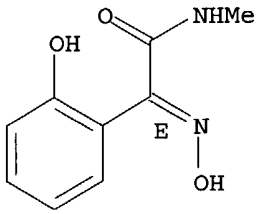


RN 17892-65-8 HCAPLUS
CN 2,3-Benzofurandione, 3-oxime (8CI, 9CI) (CA INDEX NAME)



IT **496770-93-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)
RN 496770-93-5 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-α-(hydroxyimino)-N-methyl-, (αE)-(9CI) (CA INDEX NAME)

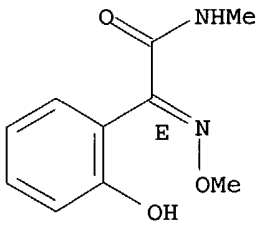
Double bond geometry as shown.



IT **156895-31-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective procedure for the production of (2E)-2-(hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamides by the stereoselective ring-opening amidation of 3-oximino-2-benzofuranone with **methylamine**)
RN 156895-31-7 HCAPLUS

CN Benzeneacetamide, 2-hydroxy-α-(methoxyimino)-N-methyl-, (αE)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L54 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:396834 HCAPLUS
DN 135:19440
ED Entered STN: 01 Jun 2001
TI Methods for producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivatives
IN **Huebsch, Walter; Gallenkamp, Bernd; Gayer, Herbert; Mulder, Lubbertus; Mueh, Thorsten; Lantzsch, Reinhard; Weintritt, Holger**
PA **Bayer Aktiengesellschaft, Germany**
SO PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM C07C251-00
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001038294	A2	20010531	WO 2000-EP11225	20001114 <--
	WO 2001038294	A3	20011018		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 19956920	A1	20010531	DE 1999-19956920	19991126 <--
	BR 2000015813	A	20020716	BR 2000-15813	20001114 <--
	EP 1235790	A2	20020904	EP 2000-981255	20001114 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003514890	T2	20030422	JP 2001-539851	20001114 <--
	ZA 2002003079	A	20030422	ZA 2002-3079	20020418 <--
	US 6700017	B1	20040302	US 2002-130810	20020520 <--
PRAI	DE 1999-19956920	A	19991126 <--		
	WO 2000-EP11225	W	20001114 <--		

OS MARPAT 135:19440
AB The invention relates to several novel methods for producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs. Thus, 2-HOC6H4COCO2Me was treated with **MeNH2** in dioxane to give 2-HOC6H4C(:NMe)CONHMe which was treated with MeONH2 in MeOH to give 2-HOC6H4C(:NOMe)CONHMe. 2-HOC6H4COCO2Me was also converted to 2-HOC6H4COCONHMe for oximation.

ST hydroxyphenylalkoxyiminoacetamide prepn; alkoxyiminohydroxyphenylacetamide prepn

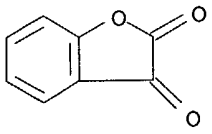
IT **4732-72-3**, 2,3-Benzofurandione **34073-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs.)

IT **342632-41-1P 342632-43-3P 342632-46-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs.)

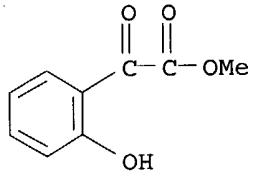
IT **207515-53-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs.)

IT **4732-72-3**, 2,3-Benzofurandione **34073-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs.)

RN 4732-72-3 HCAPLUS
CN 2,3-Benzofurandione (8CI, 9CI) (CA INDEX NAME)

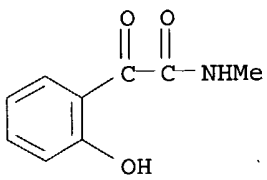


RN 34073-46-6 HCAPLUS
CN Benzeneacetic acid, 2-hydroxy-α-oxo-, methyl ester (9CI) (CA INDEX NAME)

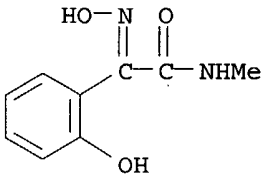


IT **342632-41-1P 342632-43-3P 342632-46-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs.)

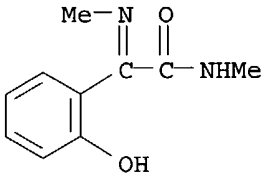
RN 342632-41-1 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-N-methyl-α-oxo- (9CI) (CA INDEX NAME)



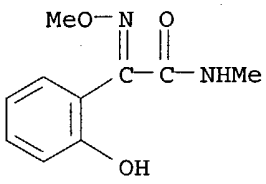
RN 342632-43-3 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-α-(hydroxyimino)-N-methyl- (9CI) (CA INDEX NAME)



RN 342632-46-6 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-N-methyl-α-(methylimino)- (9CI) (CA INDEX NAME)



IT **207515-53-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(producing 2-(2-hydroxyphenyl)-2-(alkoxyimino)-N-methylacetamide derivs.)
RN 207515-53-5 HCAPLUS
CN Benzeneacetamide, 2-hydroxy-α-(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



=>